

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits  | Search Query                                                         | DBs                                                                     | Default Operator | Plurals | Time Stamp          |
|-------|-------|----------------------------------------------------------------------|-------------------------------------------------------------------------|------------------|---------|---------------------|
| L1    | 12760 | 428/402-407.ccls.                                                    | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2010/06/02<br>17:36 |
| L2    | 159   | L1 AND (hollow near2 particle)                                       | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2010/06/02<br>17:36 |
| L3    | 1     | L1 AND (hollow near2 particle) AND (polymer near2 brush near2 layer) | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2010/06/02<br>17:37 |
| S1    | 0     | ("20030185741").PN.                                                  | USPAT; USOCR                                                            | OR               | OFF     | 2009/08/10<br>18:17 |
| S2    | 2     | "20030185741".pn.                                                    | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2009/08/10<br>18:17 |

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| S3  | 2      | "20020172716".pn.                                                                                                        | US_PGPUB;<br>USPAT;<br>USOCP; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/08/10<br>18:18 |
| S4  | 452510 | hollow adj microparticle same polymer adj layer same (enclo\$5 or encap\$8 or coat\$5)                                   | USPAT                                                                   | OR | OFF | 2009/08/17<br>17:26 |
| S6  | 0      | hollow adj microparticle same polymer adj layer same (enclo\$5 or encap\$8 or coat\$5) same hollow adj portion           | USPAT                                                                   | OR | OFF | 2009/08/17<br>17:27 |
| S7  | 0      | hollow adj microparticle same polymer adj layer same (enclo\$5 or encap\$8 or coat\$5)                                   | USPAT                                                                   | OR | OFF | 2009/08/17<br>17:27 |
| S8  | 1      | (Atom adj transfer adj radical adj polymerization or ATRP) same polymer adj layer same (enclo\$5 or encap\$8 or coat\$5) | USPAT                                                                   | OR | OFF | 2009/08/17<br>17:27 |
| S9  | 6      | "2005100452".pn.                                                                                                         | US_PGPUB;<br>USPAT;<br>USOCP; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/08/29<br>17:18 |
| S10 | 1      | "200228660".pn.                                                                                                          | US_PGPUB;<br>USPAT;<br>USOCP; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/08/29<br>18:24 |
| S11 | 2      | "0228660".pn.                                                                                                            | US_PGPUB;<br>USPAT;<br>USOCP; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/08/29<br>18:25 |

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| S12 | 2  | "02028660".pn.                                                                                         | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/08/29<br>18:25 |
| S13 | 4  | "2002028660".pn.                                                                                       | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/08/29<br>18:25 |
| S14 | 4  | :polymer adj brush adj layer                                                                           | USPAT                                                                   | OR | OFF | 2009/09/11<br>17:56 |
| S15 | 24 | :polymer adj brush adj layer                                                                           | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/09/11<br>17:57 |
| S16 | 6  | :polymer adj brush adj layer AND Microparticle                                                         | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/09/11<br>17:57 |
| S17 | 3  | :hollow near2 particle same polymer same (enclo\$5<br>or encap\$8 or coat\$5) same hollow adj portion  | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/17<br>10:33 |
| S18 | 4  | :JP-2003327641-\$._DID. OR JP-2002145971-\$._DID.<br>OR JP-05125127-\$._DID. OR JP-2004190038-\$._DID. | US_PGPUB;<br>USPAT;<br>USOCR; JPO                                       | OR | OFF | 2009/11/17<br>13:17 |

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| S19 | 24 | hollow near2 particle AND polymer AND (enclo\$5 or encap\$8 or coat\$5) same hollow adj portion                              | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/17<br>13:31 |
| S20 | 2  | hollow near2 particle AND Density near5 chain\$1 same polymer near2 brush near2 layer                                        | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/17<br>13:35 |
| S21 | 3  | Density near5 chain\$1 same polymer near2 brush near2 layer                                                                  | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/17<br>13:35 |
| S22 | 54 | (Atom near2 transfer near2 radical near2 polymerization) AND Hollow near2 particle\$3                                        | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>13:28 |
| S23 | 1  | (Atom near2 transfer near2 radical near2 polymerization) AND Hollow near2 particle\$3 AND (High near2 density near2 polymer) | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>13:34 |
| S24 | 3  | (Atom near2 transfer near2 radical near2 polymerization) AND Hollow near2 particle\$3 AND (High near2 density with polymer)  | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>13:35 |

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| S25 | 4    | (Atom near2 transfer near2 radical near2 polymerization) AND Hollow near2 particle\$3 AND Density with chains | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>13:36 |
| S26 | 0    | graft near2 density same chains near2 nm                                                                      | US_PGPUB;<br>USPAT;<br>USOCR; JPO                                       | OR | OFF | 2009/11/18<br>14:57 |
| S27 | 0    | graft near2 density same chains near2 nm                                                                      | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>14:57 |
| S28 | 0    | graft with density same chains near2 nm                                                                       | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>15:01 |
| S29 | 0    | Particle with PMAA with PEMO                                                                                  | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>16:50 |
| S35 | 13   | ("2003/0185741").URPN.                                                                                        | USPAT                                                                   | OR | OFF | 2009/11/18<br>17:03 |
| S36 | 3787 | high near2 density with polystyrene                                                                           | USPAT                                                                   | OR | OFF | 2009/11/18<br>17:32 |
| S37 | 722  | high near2 density near2 polystyrene                                                                          | USPAT                                                                   | OR | OFF | 2009/11/18<br>17:32 |
| S38 | 639  | high adj density near2 polystyrene                                                                            | USPAT                                                                   | OR | OFF | 2009/11/18<br>17:32 |

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| S39 | 163  | high adj density adj polystyrene                                                                                                | USPAT                                                                   | OR | OFF | 2009/11/18<br>17:32 |
| S40 | 15   | high adj density adj polystyrene AND Particle                                                                                   | USPAT                                                                   | OR | OFF | 2009/11/18<br>17:33 |
| S41 | 29   | high adj density adj polystyrene AND Particle                                                                                   | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>17:33 |
| S42 | 2    | high adj density adj polystyrene AND nanoParticle                                                                               | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>17:33 |
| S43 | 3067 | (molecular near2 weight near2 distribution) same copolymer AND particle                                                         | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>17:44 |
| S44 | 1996 | (molecular near2 weight near2 distribution) with copolymer AND particle                                                         | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>17:45 |
| S45 | 658  | (molecular near2 weight near2 distribution) with ("1" or "1.1" or "1.2" or "1.3" or "1.4" or "1.5") with copolymer AND particle | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>17:45 |

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| S46 | 287  | (molecular weight near2 distribution) near5 ("1" or "1.1" or "1.2" or "1.3" or "1.4" or "1.5") with copolymer AND particle  | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>17:45 |
| S47 | 30   | (molecular weight near2 distribution) near5 ("1" or "1.1" or "1.2" or "1.3" or "1.4" or "1.5") with copolymer same particle | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>17:46 |
| S48 | 3862 | crosslinkable near2 monomer same crosslinkable functional near2 group same (polymer near2 brush near2 layer)                | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>19:31 |
| S49 | 1    | (crosslinkable near2 monomer) same (crosslinkable near2 functional near2 group) same (polymer near2 brush near2 layer)      | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>19:32 |
| S50 | 1    | (crosslinkable near2 monomer) AND (crosslinkable near2 functional near2 group) same (polymer near2 brush near2 layer)       | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>19:32 |
| S51 | 1    | (crosslinkable near2 monomer) AND (crosslinkable near2 functional near2 group) AND (polymer near2 brush near2 layer)        | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>19:32 |

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| S52 | 0   | (polymethacrylate or PMMA) same (epoxyalkylene or aminoalkylene or oxetanylalkylene or cinnamoylalkylene)                                                                        | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/18 19:34 |
| S53 | 29  | (polymethacrylate or PMMA) AND (epoxyalkylene or aminoalkylene or oxetanylalkylene or cinnamoylalkylene)                                                                         | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/18 19:34 |
| S54 | 25  | (polymethacrylate or PMMA) AND (epoxyalkylene or aminoalkylene or oxetanylalkylene or cinnamoylalkylene) AND Styrene                                                             | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/18 19:34 |
| S55 | 8   | (polymethacrylate or PMMA) AND (epoxyalkylene or aminoalkylene or oxetanylalkylene or cinnamoylalkylene) AND Styrene AND Particle                                                | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/18 19:35 |
| S56 | 31  | (molecular near2 weight near2 distribution) near5 ("1" or "1.1" or "1.2" or "1.3" or "1.4" or "1.5") with PDI                                                                    | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/18 20:03 |
| S57 | 262 | (methacrylate or PMMA or (acrylic near2 acid) or (methacrylic near2 acid) or acrylate) AND (epoxyalkylene or aminoalkylene or oxetanylalkylene or cinnamoylalkylene) AND Styrene | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/18 20:08 |

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| S58 | 3     | (methacrylate or PMMA or (acrylic near2 acid) or (methacrylic near2 acid)or acrylate) with (epoxyalkylene or aminoalkylene or oxetanylalkylene or cinnamoylalkylene) AND Styrene | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/18 20:08 |
| S59 | 50    | (methacrylate or PMMA or (acrylic near2 acid) or (methacrylic near2 acid)or acrylate) same (epoxyalkylene or aminoalkylene or oxetanylalkylene or cinnamoylalkylene)             | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/18 20:10 |
| S60 | 0     | Silica with particle with (enclosed or encapsulated or enclosing) with PMMA with styrene                                                                                         | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/18 20:15 |
| S61 | 46886 | (Silica or (silicon near2 oxide)) with (enclosed or encapsulated or enclosing) with Polymethacrylate or PMMA                                                                     | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/18 20:16 |
| S62 | 1     | (Silica or (silicon near2 oxide)) with (enclosed or encapsulated or enclosing) with (Polymethacrylate or PMMA)                                                                   | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/18 20:16 |
| S63 | 1140  | 428/341.ccls.                                                                                                                                                                    | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/19 08:12 |

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| S65 | 1736 | 428/376,398,400.ccls.                                                     | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>08:13 |
| S66 | 124  | (crosslinkable near2 monomer) AND (non near2 crosslinkable near2 monomer) | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>08:14 |
| S67 | 1    | \$66 AND particle AND ATRP                                                | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>08:15 |
| S68 | 68   | \$66 AND particle                                                         | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>08:15 |
| S69 | 11   | \$66 AND particle AND Functional near2 group                              | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>08:30 |
| S70 | 11   | \$66 AND particle AND (Functional near2 group)                            | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>08:30 |

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| S71 | 2   | "20050227077".pn.                                                               | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>08:38 |
| S72 | 2   | "20020172716".pn.                                                               | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>10:39 |
| S73 | 0   | High near density same polymer AND ATRP AND Monomer AND Functionak near2 group  | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>13:51 |
| S74 | 0   | High near2 density same polymer AND ATRP AND Monomer AND Functionak near2 group | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>13:51 |
| S75 | 0   | ATRP AND Monomer AND Functionak near2 group                                     | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>13:51 |
| S76 | 845 | ATRP AND Monomer AND Functional near2 group                                     | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>13:52 |

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| S77 | 2     | ATRP AND (cross near2 linkable near2 Monomer)<br>AND Functional near2 group                                                                                                                                            | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>13:52 |
| S78 | 15    | ATRP AND (cross near2 linkable near2 Monomer)                                                                                                                                                                          | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>13:59 |
| S79 | 137   | ATRP AND ((acrylic near2 acid) or (methacrylic<br>near2 acid) or acrylate or methacrylate) with<br>((epoxy\$6 near2 group) or (amino\$6 near2 group)<br>or (oxetanyl\$6 near2 group) or (cinnamoyl\$6 near2<br>group)) | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>14:11 |
| S80 | 2     | S79 AND (microparticle or nanoparticle)                                                                                                                                                                                | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>14:16 |
| S81 | 12329 | 428/402-407.ccls.                                                                                                                                                                                                      | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>14:17 |
| S82 | 5     | S79 AND S81                                                                                                                                                                                                            | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>14:18 |

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| S83 | 1736    | 428/376,398,400.ccls.                                                                                                                                              | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>14:22 |
| S84 | 49      | S81 AND S83                                                                                                                                                        | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>14:22 |
| S85 | 28      | S84 AND Particle                                                                                                                                                   | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>14:22 |
| S86 | 1117192 | ATRP AND ((acrylic near2 acid) or (methacrylic<br>near2 acid) or acrylate or methacrylate) with (epoxy<br>\$6) or (amino\$6) or (oxetanyl\$6) or (cinnamoyl\$6)    | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>14:28 |
| S87 | 1117175 | ATRP AND ((acrylic near2 acid) or (methacrylic<br>near2 acid) or acrylate or methacrylate) near5<br>(epoxy\$6) or (amino\$6) or (oxetanyl\$6) or<br>(cinnamoyl\$6) | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>14:28 |
| S88 | 123     | S87 AND S83                                                                                                                                                        | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>14:29 |

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| S90 | 3430 | S87 AND S81                                                                                                                                                                                              | US_PGPUB;<br>USPAT;<br>USOCP; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>14:30 |
| S91 | 262  | (methacrylate or PMMA or (acrylic near2 acid) or<br>(methacrylic near2 acid)or acrylate) AND<br>(epoxyalkylene or aminoalkylene or<br>oxetanylalkylene or cinnamoylalkylene) AND<br>Styrene              | US_PGPUB;<br>USPAT;<br>USOCP; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>16:47 |
| S92 | 95   | (methacrylate or PMMA or (acrylic near2 acid) or<br>(methacrylic near2 acid)or acrylate) AND<br>(epoxyalkylene or aminoalkylene or<br>oxetanylalkylene or cinnamoylalkylene) AND<br>Styrene AND Particle | US_PGPUB;<br>USPAT;<br>USOCP; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>16:47 |
| S93 | 22   | (methacrylate or PMMA or (acrylic near2 acid) or<br>(methacrylic near2 acid)or acrylate) with<br>(epoxyalkylene or aminoalkylene or<br>oxetanylalkylene or cinnamoylalkylene)                            | US_PGPUB;<br>USPAT;<br>USOCP; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>17:34 |
| S94 | 50   | (methacrylate or PMMA or (acrylic near2 acid) or<br>(methacrylic near2 acid)or acrylate) same<br>(epoxyalkylene or aminoalkylene or<br>oxetanylalkylene or cinnamoylalkylene)                            | US_PGPUB;<br>USPAT;<br>USOCP; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/19<br>17:48 |

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| S95 | 29  | (methacrylate or PMMA or (acrylic near2 acid) or (methacrylic near2 acid)or acrylate) with (epoxyethylene or epoxypropylene or epoxymethylene or aminoethylene or aminopropylene or aminomethylene or oxetanylethylene or oxetanylpropylene or oxetanylmethylene or cinnamoylmethylene or cinnamoylpropylene or cinnamoylethylene)                                                                                                               | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 07:21 |
| S96 | 59  | (methacrylate or PMMA or (acrylic near2 acid) or (methacrylic near2 acid)or acrylate) same (epoxyethylene or epoxypropylene or epoxymethylene or aminoethylene or aminopropylene or aminomethylene or oxetanylethylene or oxetanylpropylene or oxetanylmethylene or cinnamoylmethylene or cinnamoylpropylene or cinnamoylethylene)                                                                                                               | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 07:30 |
| S97 | 59  | (methacrylate or PMMA or (polymethyl near2 methacrylate) or (acrylic near2 acid) or (methacrylic near2 acid)or acrylate) same (epoxyethylene or epoxypropylene or epoxymethylene or aminoethylene or aminopropylene or aminomethylene or oxetanylethylene or oxetanylpropylene or oxetanylmethylene or cinnamoylmethylene or cinnamoylpropylene or cinnamoylethylene)                                                                            | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 07:30 |
| S98 | 103 | (methacrylate or PMMA or (polymethyl near2 methacrylate) or (acrylic near2 acid) or (methacrylic near2 acid)or acrylate) same (epoxyethylene or epoxypropylene or epoxymethylene or epoxyalkylene or aminoethylene or aminopropylene or aminomethylene or aminoalkylene or oxetanylethylene or oxetanylpropylene or oxetanylmethylene or oxetanylalkylene or cinnamoylmethylene or cinnamoylpropylene or cinnamoylethylene or cinnamoylalkylene) | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 07:35 |

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| S99  | 51   | (methacrylate or PMMA or (polymethyl near2 methacrylate) or (acrylic near2 acid) or (methacrylic near2 acid)or acrylate) with (epoxyethylene or epoxypropylene or epoxymethylene or epoxyalkylene or aminoethylene or aminopropylene or aminomethylene or aminoalkylene or oxetanylethylene or oxetanylpropylene or oxetanymethylene or oxetanylalkylene or cinnamoylmethylene or cinnamoylpropylene or cinnamoylethylene or cinnamoylalkylene) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 07:35 |
| S100 | 2    | "20050202257".pn.                                                                                                                                                                                                                                                                                                                                                                                                                               | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 07:41 |
| S101 | 1208 | (methacrylate or PMMA or (polymethyl near2 methacrylate) or (acrylic near2 acid) or (methacrylic near2 acid)or acrylate) AND (epoxyethylene or epoxypropylene or epoxymethylene or epoxyalkylene or aminoethylene or aminopropylene or aminomethylene or aminoalkylene or oxetanylethylene or oxetanylpropylene or oxetanymethylene or oxetanylalkylene or cinnamoylmethylene or cinnamoylpropylene or cinnamoylethylene or cinnamoylalkylene)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 07:49 |
| S102 | 20   | S101 AND (microparticle or nanoparticle or nanocluster)                                                                                                                                                                                                                                                                                                                                                                                         | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 07:49 |

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|------|------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----|-----|---------------------|
| S103 | 12   | (degree near2 polymerization same (methacrylate)<br>AND Hollow near2 (particles or microspheres) | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>08:52 |
| S104 | 9104 | (degree near2 polymerization with molecular near2<br>weight                                      | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>08:55 |
| S105 | 4624 | (degree near2 polymerization near5 molecular near2<br>weight                                     | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>08:56 |
| S106 | 2126 | (degree near2 polymerization) near5 (molecular<br>near2 weight) AND particle                     | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>08:56 |
| S107 | 7    | (degree near2 polymerization) near5 (molecular<br>near2 weight) AND hollow near3 particle        | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>08:56 |
| S108 | 2    | "20040126345".pn.                                                                                | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>11:25 |

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|------|---|---------------------------------------------------|-------------------------------------------------------------------------|----|-----|---------------------|
| S109 | 0 | ethylmethacryloyloxymethyloxetane                 | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>11:39 |
| S110 | 0 | ethyl near2 methacryl near2 oyloxymethyloxetane   | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>11:39 |
| S111 | 1 | ethyl near2 methacryloyloxy near2 methyloxetane   | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>11:39 |
| S112 | 1 | ethyl near5 methacryloyloxy near5 methyloxetane   | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>11:40 |
| S113 | 1 | ethyl near10 methacryloyloxy near10 methyloxetane | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>11:40 |
| S114 | 2 | methacryloyloxy near10 methyloxetane              | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>11:40 |

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| S115 | 2   | methacryloyloxy with methyloxetane       | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>11:41 |
| S116 | 2   | "20020016418".pn.                        | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>12:11 |
| S117 | 167 | 3-ethyl-3-methacryloyloxy methyloxetan   | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>12:16 |
| S118 | 13  | S117 AND Methacrylate                    | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>12:16 |
| S119 | 2   | "20020151626".pn.                        | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>12:42 |
| S120 | 0   | crosslinker with dicarboxylic near2 acid | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>13:35 |

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| S121 | 112 | crosslinker with dicarboxylic near2 acid                     | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>13:35 |
| S122 | 2   | crosslinker with dicarboxylic near2 acid with methacrylate   | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>13:42 |
| S123 | 30  | crosslinker same dicarboxylic near2 acid same methacrylate   | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>13:48 |
| S124 | 33  | "5270416"                                                    | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>13:58 |
| S125 | 2   | "5270416".pn.                                                | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>13:58 |
| S126 | 31  | crosslinker same dicarboxylic near2 acid same \$methacrylate | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>14:57 |

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| S127 | 6148  | :dicarboxylic near2 acid same \$methacrylate | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>15:13 |
| S128 | 5409  | :dicarboxylic near2 acid same methacrylate   | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>15:13 |
| S129 | 2876  | :dicarboxylic near2 acid with \$methacrylate | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>15:14 |
| S130 | 12329 | 428/402-407.ccls.                            | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>15:14 |
| S131 | 22    | S129 AND S130                                | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>15:14 |
| S132 | 2568  | :dicarboxylic near2 acid with methacrylate   | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>15:45 |

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| S133 | 203 | \$132 AND Hollow AND Particle                                                                                                                                             | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>15:45 |
| S134 | 99  | \$132 AND Hollow AND Particle AND Coat                                                                                                                                    | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>15:45 |
| S135 | 170 | \$132 AND Hollow AND Particle AND Coat\$3                                                                                                                                 | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>15:46 |
| S136 | 59  | \$132 AND Hollow with Particle                                                                                                                                            | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>15:46 |
| S137 | 196 | (di\$4ylamino\$4ylmethacrylate) same ((dicarboxylic<br>near2 acid) or (adipic near2 acid) or (sebacic near2<br>acid) or (azaleic near2 acid) or (succinic near2<br>acid)) | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>16:05 |
| S138 | 107 | \$137 AND particle                                                                                                                                                        | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>16:05 |

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| S139 | 0    | ((di\$4ylamino\$4ylmethacrylate) same crosslinker same ((dicarboxylic near2 acid) or (adipic near2 acid) or (sebacic near2 acid) or (azaleic near2 acid) or (succinic near2 acid))                         | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 16:14 |
| S140 | 41   | ((di\$4ylamino\$4ylmethacrylate) or (methacrylate \$2)) same crosslinker same ((dicarboxylic near2 acid) or (adipic near2 acid) or (sebacic near2 acid) or (azaleic near2 acid) or (succinic near2 acid))  | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 16:14 |
| S141 | 1151 | ((di\$4ylamino\$4ylmethacrylate) or (methacrylate \$2)) same crosslink\$4 same ((dicarboxylic near2 acid) or (adipic near2 acid) or (sebacic near2 acid) or (azaleic near2 acid) or (succinic near2 acid)) | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 17:22 |
| S142 | 768  | ((di\$4ylamino\$4ylmethacrylate) or (methacrylate \$2)) same crosslink\$2 same ((dicarboxylic near2 acid) or (adipic near2 acid) or (sebacic near2 acid) or (azaleic near2 acid) or (succinic near2 acid)) | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 17:23 |
| S143 | 35   | S142 AND Hollow AND Particle                                                                                                                                                                               | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 17:23 |
| S144 | 58   | S142 AND Coat\$4 near2 particle                                                                                                                                                                            | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 17:27 |

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| S145 | 211 | ((di\$4ylamino\$4ylmethacrylate) or (methacrylate \$2)) with crosslink\$2 with ((dicarboxylic near2 acid) or (adipic near2 acid) or (sebacic near2 acid) or (azaleic near2 acid) or (succinic near2 acid))   | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 17:31 |
| S146 | 73  | ((di\$4ylamino\$4ylmethacrylate) or (methacrylate \$2)) with crosslink\$2 near10 ((dicarboxylic near2 acid) or (adipic near2 acid) or (sebacic near2 acid) or (azaleic near2 acid) or (succinic near2 acid)) | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 17:31 |
| S147 | 77  | ((di\$4ylamino\$4ylmethacrylate) or (methacrylate \$2)) with crosslink\$2 near15 ((dicarboxylic near2 acid) or (adipic near2 acid) or (sebacic near2 acid) or (azaleic near2 acid) or (succinic near2 acid)) | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 17:44 |
| S148 | 3   | (methacrylate\$2) with crosslinker with ((dicarboxylic near2 acid) or (adipic near2 acid) or (sebacic near2 acid) or (azaleic near2 acid) or (succinic near2 acid))                                          | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 17:44 |
| S149 | 0   | (methacrylate\$2) with crosslinker with (sebacic near2 acid)                                                                                                                                                 | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 17:52 |
| S150 | 7   | (methacrylate) same crosslinker same (sebacic near2 acid)                                                                                                                                                    | US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/11/20 17:52 |

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| S151 | 2    | "20040122143"                                                                                                                                                                             | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>17:55 |
| S152 | 5254 | ((di\$4ylamino\$4ylmethacrylate) or (methacrylate \$2)) with ((dicarboxylic near2 acid) or (adipic near2 acid) or (sebacic near2 acid) or (azaleic near2 acid) or (succinic near2 acid))  | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>18:09 |
| S153 | 1113 | ((di\$4ylamino\$4ylmethacrylate) or (methacrylate \$2)) near5 ((dicarboxylic near2 acid) or (adipic near2 acid) or (sebacic near2 acid) or (azaleic near2 acid) or (succinic near2 acid)) | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>18:11 |
| S154 | 39   | S153 AND (nanoparticle or nanoclusters or nanoparticulate or microparticles or microspheres)                                                                                              | US_PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/20<br>18:12 |

6/2/2010 6:18:47 PM

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